

ROTEL *hi fi*

RC 995

Stereo Control Amplifier
with Remote Control

Owners Manual

Please write the serial number, date of purchase and the name of your ROTEL *hi fi* AUTHORIZED DEALER in the spaces provided for your future reference.

SERIAL NUMBER _____.

PURCHASE DATE _____.

Rotel *hi fi* AUTHORIZED DEALER _____.

SAFETY INSTRUCTIONS

Please read this section carefully before you begin, in order to ensure the safety both of yourself and that of your equipment at all times:

1. **Read Instructions** — All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** — The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** — All warnings on the appliance and in the operating instructions should be followed.
4. **Follow Instructions** — All operating and use instructions should be followed.
5. **Water and Moisture** — The appliance should not be used near water—for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Carts and Stands** — The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.
7. **Wall or Ceiling Mounting** — The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may that may impede the flow of air through the ventilation openings.
9. **Heat** — The appliance should be situated away from heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.
10. **Power Sources** — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Grounding or Polarization** — The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
12. **Power-Cord Protection** — Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles and the point where they exit from the appliance.
13. **Cleaning** — The appliance should be cleaned only as recommended by the manufacturer.
14. **Power Lines** — An outdoor antenna should be located away from the power lines.
15. **Nonuse Periods** — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
17. **Damage Requiring Service** — The appliance should be serviced by qualified factory-authorized service personnel when:
 - The power-supply cord or the plug has been damaged; or
 - Objects have fallen, or liquid has been spilled into the appliance; or
 - The appliance has been exposed to rain; or
 - The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - The appliance has been dropped, or the enclosure damaged.
18. **Servicing** — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified factory-authorized service personnel.

APPLICABLE FOR USA, CANADA OR WHERE APPROVED TO THE USAGE

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT, INSERT FULLY.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Do not remove the panels. There is no user serviceable part inside. Refer servicing to qualified service personnel.

A WORD FROM ALL OF US AT ROTEL

Thank you for purchasing our RC 995 remote control preamplifier. We have been designing and manufacturing high quality, high performance audio electronics for more than 30 years. This preamplifier was designed to offer lifelike sound and is a natural extension of our love of music. We are *famous* for our passion for good sound and our love of music. We believe that the music played through the RC 995 will be a source of enjoyment to you for many years to come.

Rotel is committed to making quality products to enhance your life. We have designed this preamplifier to be durable, easy to operate and to have *high fidelity to the original sound*. Please read the owners manual to ensure that the preamplifier is properly installed and able to offer optimum performance. We appreciate being a part of your life.

DESIGN FEATURES OF THE RC 995 CONTROL AMPLIFIER

The RC 995 is a full featured, high performance preamplifier. All aspects of the design have been optimized to retain the full dynamic range and subtle nuances of your music. To help make this possible, the RC 995 has a *highly regulated power supply*. This power supply is derived from a Rotel custom designed toroidal power transformer and custom designed, slit foil capacitors. These ensure a low impedance power supply that has ample power reserves for all the musical demands made on the circuits. This type of design is more expensive to manufacture but it is *better for the music*.

The preamplifier outputs of the RC 995 offer XLR (balanced) or RCA cable connections. We have designed the printed circuit boards (PCB) with Symmetrical Circuit Traces. This insures that the precise timing of the music is maintained and faithfully recreated. Circuit traces of different length change the timing between the channels slightly. We use the PCB to transfer the signals with more consistent sound quality than if we used wire jumpers. The PCB contains metal film resistors and polystyrene or polypropylene capacitors in sonically selected applications. All aspects of this design have been examined with the final goal being faithful reproduction of music.

We have included a superb phono preamp stage in the RC 995. Many competitive preamplifiers have no phono stage *or a severely compromised design thrown in as an afterthought*. This phono stage has been derived from our finest phono preamplifier, the **RHQ 10**. This shows our commitment to phono sound quality and our interest in the recreation of fine music. The selector switch will make it easy to choose between a moving magnet (MM) or a moving coil (MC) phono cartridge. The addition of a phono stage, when combined with remote control, created a challenge during the design and listening phase of development. We believe we have succeeded in our efforts and the RC 995 is an excellent preamplifier in all respects. The fact that it is very convenient to operate is merely an added bonus.

INSTALLATION OF THE RC 995

Please place the unit on a DRY, level surface away from direct sunlight. Do not allow liquids to fall on the RC 995 as this could damage the circuitry. Avoid installing the preamplifier in a location where excessive humidity, vibration or moisture will be a problem. We recommend installing the RC 995 in furniture designed to house Hi Fi components. This will allow the preamplifier to be *on its own shelf with nothing stacked on top of it*. Please do not stack the RC 995 on top of a power amplifier. This will minimize potential hum or interference from other components in your system. Component furniture will reduce or suppress vibration. All audio components will provide improved sound when free from vibration. *A well thought out installation will improve the potential sound quality of your system and will be a great source of pleasure to you and your friends.* Ask your **ROTEL*hi fi* AUTHORIZED DEALER** for advice about component furniture and proper installation of audio components.

Please be careful to keep the power cords, digital and analog signal cables **separate** in your installation. This will minimize the chance of interference from the power cords or digital cables getting into the analog signal cables. We recommend high quality, shielded cables for this reason as well.

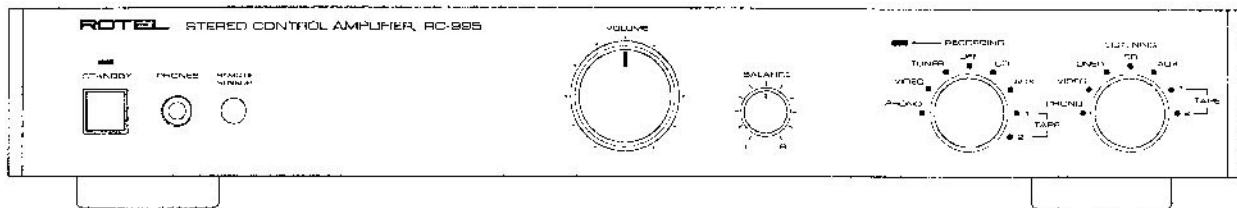
ELECTRICAL REQUIREMENTS AND CLEANING

This preamplifier is designed to operate on AC voltage and the correct voltage is displayed on the Back Panel. *Do not attempt to operate the RC 995 on incorrect voltage as this will damage the circuitry.* If you are in doubt about the correct voltage for this preamplifier, we suggest reading the label on the back panel, the label on the packing carton or consult your **ROTEL*hi fi* AUTHORIZED DEALER** for confirmation of the correct voltage.

Connect the POWER CORD to your wall socket for AC power. When you wish to disconnect the power cord from the wall, hold the plug firmly in your hand and then pull it out of the wall socket. *Do not unplug the power cord from the wall by pulling the cord only. This may damage the power cord and create a hazardous condition.* We strongly recommend that the preamplifier be connected to the main's wall socket or an AC power line filter, not an extension cord.

If you wish to clean the cabinet of the RC 995, we suggest a clean, soft DRY cloth. *Never use cleaning compounds or solvents to clean the cabinet as they may damage the finish or remove the labels.* This could damage the circuitry if any residue enters the preamplifier.

There is **NO** user serviceable part inside the RC 995. **Please do not open the cabinet as this will expose you to the risk of potentially dangerous voltage and the risk of shock.** Please refer any service to **ROTEL*hi fi* AUTHORIZED SERVICE** personnel.



Please refer to this front panel drawing of the controls on the RC 995.

FRONT PANEL CONTROLS OF THE RC 995

The front panel includes the **STANDBY** button, **POWER** indicator light, **HEADPHONE** jack, **REMOTE SENSOR**, **VOLUME**, **BALANCE**, **RECORDING** and **LISTENING** controls with LED indicator lights.

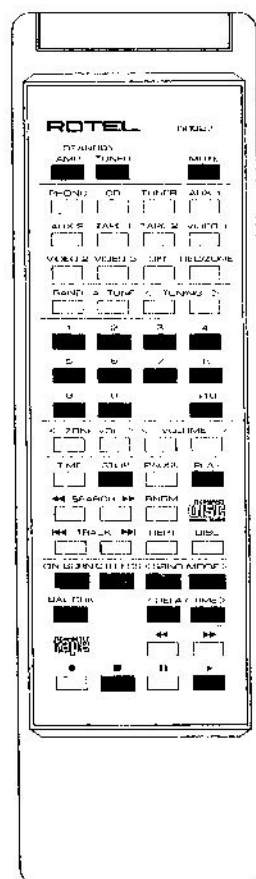
Pressing the front panel, or the RR 927 remote control, **STANDBY** button will cause the preamplifier to turn ON and the function indicator lights to illuminate. Press again, the preamplifier will enter **STANDBY** and the function indicator lights will extinguish. The **POWER** indicator light above the **STANDBY** button will *always* be illuminated when the RC 995 is connected to a "live" AC outlet.

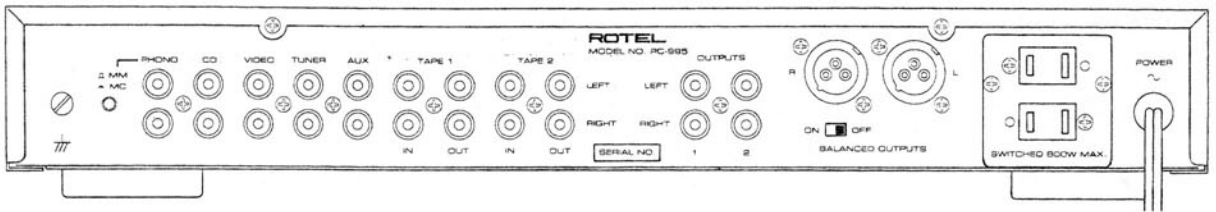
The **HEADPHONE** jack allows you to listen privately to your favorite music. If your headphones have the wrong size plug, consult your **ROTEL hi fi AUTHORIZED DEALER** for the correct adapter plug.

The **REMOTE SENSOR** is a receiver for the infra red signals from the RR 927 remote control. Please do not cover or block this during use. It should be clear of obstructions or the remote control may not work properly.

The **VOLUME** control will increase or decrease the **VOLUME** in both channels at the same time. Turn it *clockwise* to increase the volume and *counterclockwise* to decrease the volume. To alter the apparent loudness *between* channels will be easy if you use the **BALANCE** control. The **BALANCE** will make the channel you rotate it *toward* the loudest. Turn it to the right and the **RIGHT** channel will become the loudest. Turn it to the left and the **LEFT** channel will become the loudest.

The **RECORDING** and **LISTENING** controls have LED indicator lights to show the output of the **RECORDING** section and the input playing in the **LISTENING** section of the RC 995. The **RECORDING** section has outputs for **PHONO**, **VIDEO**, **TUNER**, **OFF**, **CD**, **AUX**, **TAPE 1** and **2**. When not using the **RECORDING** output for a recording, we suggest that it be set to the **OFF** position to minimize potential interference from other components in your system. The **LISTENING** section has inputs for **PHONO**, **VIDEO**, **TUNER**, **CD**, **AUX**, **TAPE 1** and **TAPE 2**.





Please refer to this drawing of the back panel when connecting source components to the RC 995.

MAKING CONNECTIONS TO THE RC 995

The **PHONO** input is for a moving magnet (**MM**) or moving coil (**MC**) phono cartridge *only* and is incompatible with line level components. Please select the correct setting, *in* for MC or *out* for MM, for your phono cartridge. Some high output moving coil cartridges are designed to operate in the moving magnet position. If you are in doubt about the correct setting, please read the instructions with the phono cartridge you have chosen. Your phono cartridge should have details in its owner's manual regarding its output voltage and the expected input impedance. The PHONO input has 47 kOhms input impedance/2.5 mV sensitivity in the MM position and 100 Ohms input impedance/0.25 mV sensitivity in the MC position.

When connecting components to the RC 995, choose the inputs that are labeled for the type of component. The VIDEO, TUNER, CD, AUX, TAPE 1 and TAPE 2 inputs are all **line level inputs**. These are for connecting a CD player, *Hi Fi* or NICAM Stereo video cassette recorder, tuners for audio or video, audio cassette recorder, a digital recorder, Laser Disc player or the analog output from a CD ROM drive. The **LEFT** and **RIGHT** channels are clearly labeled and should be connected to the corresponding channels of the source component. We recommend high quality RCA patch cables for connecting input source components to the RC 995. Ask your **ROTEL *hi fi* AUTHORIZED DEALER** for advice about cables.

The **TAPE 1** and **TAPE 2** positions have **IN** and **OUT** connection points. The IN connections are to *receive* signals from your recorder and the OUT connections are to *send* signal to your recorder. If you wish to duplicate (**DUBBING**) a recording from one recorder to another, then the unit recording should be connected to TAPE 2. The unit playing should be connected to TAPE 1. Set RECORDING to OFF if you are not using the recorders.

The **OUTPUT** of the RC 995 is from **RCA or XLR** connections on the back panel. To use the XLR connections will require turning the XLR switch ON. *The XLR outputs should not be used at the same time as the RCA outputs.* The **Rotel RMB 100** power amplifier has XLR inputs and would be an excellent match for the RC 995.

NOTE:

The North American version of the RC 995 has two SWITCHED outlets on the back panel. These will be ON when the RC 995 is playing. These outlets will turn OFF when the RC 995 enters STANDBY. These outlets will switch up to 800 watts of total power consumption. *This maximum rating should not be exceeded* as this could damage the STANDBY switch in the RC 995.

A FINAL WORD ABOUT THIS CONTROL AMPLIFIER

We have designed this preamplifier for high performance using test equipment *and the human ear*. We believe both methods are useful in the design of high fidelity audio electronics. *This is time consuming but we feel the music benefits from this care and attention to detail*. With our reputation for excellent sound quality, you can be certain that the RC 995 represents excellent value for money. We realize that there are many choices available and we thank you again for choosing the RC 995 for your system. Enjoy the music!

SPECIFICATIONS: RC 995 CONTROL AMPLIFIER

Total Harmonic Distortion (20 Hz–20,000 Hz)	≤ 0.004%
Intermodulation Distortion (60 Hz : 7 kHz, 4:1)	≤ 0.004%
Frequency Response	4–100 kHz, ± 0.5 dB
Phono Stage Frequency Response	20–20 kHz, ± 0.2 dB
Phono Impedance (MM, MC)	47 kOhms, 100 Ohms
Signal to Noise Ratio, CD (IHF A network)	100 dB
Signal to Noise, Phono	70 dB MC, 75 dB MM
Input Impedance (except Phono)	18 kOhms
Output Impedance	100 Ohms
Rated Output Voltage	1 Volt
Power Requirements	115 Volts, 60 Hz <i>or</i> 230 Volts, 50 Hz
Power Consumption, Max.	13 watts, Standby 2.4 watts
Dimensions (W, H, D)	440 x 70 x 325 mm 17.37 x 2.75 x 12.78"
Weight	5.4 kg, 11.9 lbs.

All specifications are accurate at the time of printing. Rotel reserves the right to make improvements without notice.